



WReCon - LITE

Catalog 8 Addendum

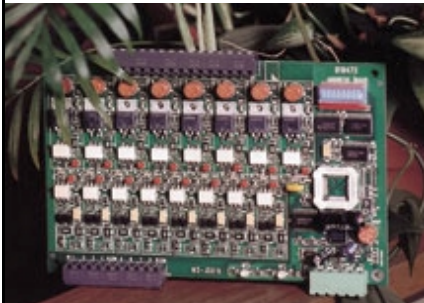
September, 2000

NEW 1782-JDC and 1782-JDM Series DeviceNet to ASCII & Modbus gateways

- Simple DeviceNet connectivity for serial devices like bar code scanners, weigh scales, robots, displays, or drives.
- Provides DeviceNet connectivity for Modbus protocol Devices
- Implements poll I/O for simple regular communication
- Quick disconnect serial cable terminations
- Transmit and receive serial status LED's
- Implements explicit messaging for set up and parameters
- 5-pin pluggable DeviceNet connection
- 1782-JDC series provides ASCII gateway
- 1782-JDM series provides Modbus gateway
- RS232 (1782-JD_-1)
- RS485 (1782-JD_-2)
- Isolated RS232 (1782-JD_-3)
- Standard DeviceNet module status and network status LEDs
- For custom protocol versions, call WRC



NEW DeviceNet I/O for OEMs W5-JDB16A, W5-JDB16F and W5-JDB16B



The W5 series of DeviceNet I/O boards provide a very cost effective solution for OEMs needing to distribute their I/O in such applications such as sorting, material handling, conveying and others.

W5-JDB16A provides 8 ac inputs and 8 - 2 amp ac outputs as well as 4 0-10 Vdc analog inputs. **W5-JDB16B** provides 8 dc inputs and 8—1 amp dc outputs as well as 4 0-10 Vdc analog in-

puts. **W5-JDB16F** provides 8 dc inputs and 8—4 amp DC FET outputs as well as 4 0-10 Vdc analog inputs.

Common specifications include:

- Removable terminal block connections
- Output isolation of 4000 Vrms from output to output and from output to network
- Input isolation of 4000 Vrms between group of 4 inputs as well as to network
- Switch selectable address and baud rates as well as software selectable
- Poll, cyclic and change-of-state supported
- An optional 24 Vdc power connection is provided
- 15 Vdc output to power analog devices

Counting features added for SmartMux-Lite™

WRC's 1782-JDB4 and 1782-JDB8 now include pulse-counting as a standard feature. Useful for applications such as energy metering, speed measurements, and position resolution. SmartMux-Lite supports discrete pulse counting to a rate of 1 KHz on all channels. For best performance, populate SmartMux-Lite with 1781-IT5S high-speed input modules



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NEW space saving SmartMux-Plus versions and enhanced SmartMux-Plus features for embedded control applications

SmartMux-Plus™ was a focused development meeting the ODVA Semi-Sig specification for DeviceNet products used in the semiconductor industry. Using an Intel core microprocessor, the product line has been extended to serve new applications as a stand-alone, user-extensible embedded microcontroller.

SmartMux-Plus embedded microcontroller comes with the following standard features:

- Intel x86 micro
- WRC realtime operating system
- Network support for DeviceNet or Modbus
- Real-time clock option
- Embedded 33.6 Kbaud modem option supporting data, fax, and beeper
- 32K RAM
- 256K FLASH
- EEPROM
- I/O support for up to 48 discrete I/O, 32 analog I/O and 2 serial channels
- Extensible using an Intel C compiler
- Battery backed RAM option
- Open-frame or pre-packaged



- Services for badge readers
- Services for local alphanumeric display devices

Applications for which SmartMux-Plus is an ideal candidate include:

- SCADA Remote Terminal Unit
- Stand-alone machine control
- Remote access control
- Intelligent I/O device on a DeviceNet or Modbus network
- Water, oil and gas well-head monitoring and control
- Electrical utilities
- Water and sewerage utilities
- Lighting control

NEW SPACE SAVING INTEGRAL I/O VERSIONS ADDED

Optically isolated I/O circuits have been moved internal to the SmartMux-Plus packaging to reduce space requirements.

- **WRC1-JDB16A** provides 12 ac inputs and 12 - 2 amp ac outputs.
- **WRC1-JDB16B** provides 8 dc inputs and 8 — 1 amp dc outputs.
- **WRC1-JDB16F** provides 8 dc inputs and 8 — 4 amp DC FET outputs.

Common specifications include:

- 50 pin D-Sub connectors for the I/O
- Output isolation of 4000 Vrms from output to output and from output to network
- Input isolation of 4000 Vrms between group of 4 inputs as well as to network
- Switch selectable address and baud rates as well as software selectable
- Poll, cyclic and change-of-state supported
- Production shipments available before January 2001



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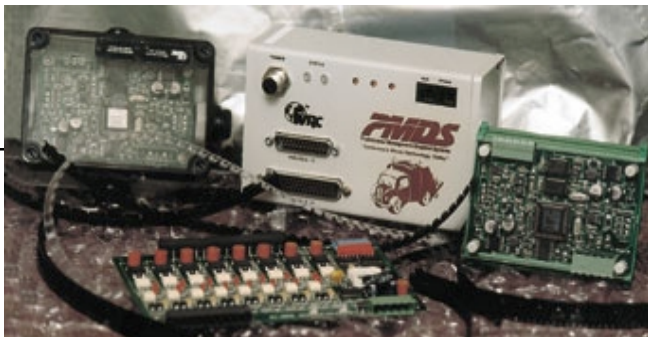
The WRC Outsource™ Program offers outsourced design, development, and production services for industrial electronic and electrical products. WRC has a wide range of standard I/O products and components to satisfy a large number of industrial and commercial data acquisition and control needs. However, when off-the-shelf products do not completely address your requirements, then WRC Outsource engineers can work with you, the OEM, to develop unique, cost-effective, quality solutions.

WRC Outsource will help you to:

- Accelerate time-to-market
- Improve costs by purchasing only what you need to perform your task
- Quickly integrate your products, processes, systems or machines onto networks such as DeviceNet™ or Industrial Ethernet
- Offer enhanced capabilities to your customers
- Offer proprietary solutions, increase your revenues, and solve your customers' needs
- Concentrate your resources on your core business— while WRC Outsource engineers effectively expand your design team

WRC's core technologies and strengths:

- Discrete I/O, SSRs and signal conditioners
- Analog I/O and signal conditioners
- Highly-distributed I/O systems
- Network-based devices, including:
 - Industrial Ethernet
 - DeviceNet slave and gateway devices
 - Modbus™ I/O devices
 - Allen-Bradley Remote I/O nodes
- Embedded Intelligence in stand-alone or networked products
- Embedded fax, modem and beeper capability
- Dial-in, dial-out capability embedded into stand-alone intelligent products
- Panels and enclosures
- Sampling systems for gaseous and liquid analytical applications
- Surface mount electronics
- Through-hole electronics
- Mechanical assembly
- Production testing



For more information, see WRC's special Outsourcing page, <http://www.wrc.cc>



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DISCONTINUED PRODUCTS

- WRC 3B SERIES of Analog Signal Conditioners found on pages 44 — 53.
- SmartMux™ Series found on pages 84— 87 including:
 - 1781-JA Series
 - 1781-JB Series
 - 1781-JO Series
 - 1781-JM Series
- Service, spares, and support are still available on all of these products. However, due to the obsolescence of components on these older design boards, WRC has had to withdraw them from general sale to new customers.

VOLUME 8 ERRATA

- Page 10: IB5S modules maximum Logic Supply Current is 18.5 mA, not 1.85
- Page 11: OF5S, OFYS & OFXS modules Minimum On-state current is 0 mA, not 10
- Page 110: WRC-CANR-DF-DN maximum fiber optic cable distance is 500 Meters, not 2200

WRC moves to new larger facilities

WRC has doubled its size moving to new facilities at the Akron City Airport Industrial Park..

In January, Akron's Mayor Don Plusquallic celebrated the move by proclaiming January 5th as WRC day in Akron. In addition to the Mayor's proclamation, WRC introduced several new products to the assembled press and provided a tour of our new manufacturing operations.

Note: As a result of the move,
WRC's address and phones have changed.
PLEASE UPDATE YOUR RECORDS

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